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Relevance scale ☐ ☐ ☐ ☐ ☐**1 [The GNAT compilation model](#)**

Robert Dewar

November 1994 **Proceedings of the conference on TRI-Ada '94**

Full text available: pdf(1.55 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One of the novel features of GNAT is its unusual approach to the compilation process and the handling of the Ada library. The words novel and unusual only apply from a traditional Ada compilation perspective. By contrast, a typical C or C++ programmer would find many aspects of the model quite familiar. In GNAT, sources are independently compiled to produce a set of objects, and the set of object files thus produced is submitted to the binder/linker to generate the resulting executable. Thi ...

**2 [Verification of the application of coding rules for Ada to enhance portability of real-time applications](#)**

P. Obermayer, J. Schröer, R. A. Peek, N. Collienne, A. Klimek, R. Landwehr

July 1994 **Proceedings of the eleventh annual Washington Ada symposium & summer ACM SIGAda meeting on Ada**

Full text available: pdf(366.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In order to improve the portability of code for real time applications written in Ada, a set of general coding rules has been compiled. In a second step, Ada code constructs offending these rules were identified. In order to support the verification of the application of coding rules a static analysis tool was developed, which tests Ada source code for these constructs and which indicates the offending constructs. Since a syntactical analysis is insufficient to perform all necessary tests, ...

**3 [Adding rule-based techniques to procedural languages](#)**

Keith R. Milliken, Allan J. Finkel, David A. Klein, Norman B. Waite

June 1988 **Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**

Full text available: pdf(906.00 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The world of software for applications in industry is dominated by compiled, algebraic (Algol derivative) programming languages such as C, Pascal, and PL/I. One approach to popularizing expert systems techniques in the industrial environment is to integrate software techniques appropriate for expert systems development into algebraic

programming languages. While programmers in industry seek more powerful software tools, generally they do not want to give up existing capabilities in ...

#### 4 A type system for Java bytecode subroutines

Raymie Stata, Martin Abadi

January 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 21 Issue 1

Full text available:  pdf(519.84 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Java is typically compiled into an intermediate language, JVMIL, that is interpreted by the Java Virtual Machine. Because mobile JVMIL code is not always trusted, a bytecode verifier enforces static constraints that prevent various dynamic errors. Given the importance of the bytecode verifier for security, its current descriptions are inadequate. This article proposes using typing rules to describe the bytecode verifier because they are more precise than prose, clearer than code, and easier ...

**Keywords:** Java, bytecode verification

#### 5 PROFGEN: a procedure for generating machine independent high-level language profilers

Paul A. Fishwick, Stefan Feyock

April 1984 **ACM SIGMETRICS Performance Evaluation Review**, Volume 12 Issue 2

Full text available:  pdf(319.28 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Many of the tools used in software metrics for evaluating the execution characteristics of a program are predicated on specific counting rules for operators and operands [1, 2]. The analyst may use these counting techniques to determine such program attributes as estimation of object code size prior to actual compilation and the relative efficiencies of various language compilers. Operator/operand measures provide useful results for certain analyses, but a deficiency exists in that the data deri ...

#### 6 Using meta-level compilation to check FLASH protocol code

Andy Chou, Benjamin Chelf, Dawson Engler, Mark Heinrich

November 2000 **Proceedings of the ninth international conference on Architectural support for programming languages and operating systems**, Volume 34 , 28 Issue 5 , 5

Full text available:  pdf(297.02 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Building systems such as OS kernels and embedded software is difficult. An important source of this difficulty is the numerous rules they must obey: interrupts cannot be disabled for ~too long," global variables must be protected by locks, user pointers passed to OS code must be checked for safety before use, etc. A single violation can crash the system, yet typically these invariants are unchecked, existing only on paper or in the implementor's mind. This paper is a case study in how system impl ...

#### 7 Using meta-level compilation to check FLASH protocol code

Andy Chou, Benjamin Chelf, Dawson Engler, Mark Heinrich

November 2000 **ACM SIGPLAN Notices**, Volume 35 Issue 11

Full text available:  pdf(1.39 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Building systems such as OS kernels and embedded software is difficult. An important source of this difficulty is the numerous rules they must obey: interrupts cannot be disabled for "too long," global variables must be protected by locks, user pointers passed to OS code must be checked for safety before use, etc. A single violation can crash the system, yet

typically these invariants are unchecked, existing only on paper or in the implementor's mind. This paper is a case study in how system impl ...

8 PCDEC, an interactive decision table system for personal computers (abstract only)

Begonia Bi-Hsia Tai, Leonard H. Weiner

February 1987 **Proceedings of the 15th annual conference on Computer Science**


Full text available:  pdf(104.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To date, most of the effort in computer creation of decision tables (DTs) has been directed toward automatic conversion of tables into program source code, which is then compiled and executed in batch mode. This preprocessor approach to processing decision tables is usually implemented on a mainframe computer and needs programmers to prepare the input for the preprocessor. As a result, using the computer to create decision tables is difficult for those without a good programming background. ...

9 Enriching the lambda calculus with contexts: toward a theory of incremental program construction

Shinn-Der Lee, Daniel P. Friedman

June 1996 **ACM SIGPLAN Notices , Proceedings of the first ACM SIGPLAN international conference on Functional programming**, Volume 31 Issue 6

Full text available:  pdf(1.32 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A context in the  $\lambda$ -calculus is a term with some holes. Hole filling differs from  $\beta$ -substitution in that name capture is intended. This seemingly simple feature transcends static scope and lies at the heart of modular and object-oriented programming. Still, the name capture feature of hole filling is at odds with hygienic  $\beta$ -substitution. In this paper we conservatively extend the  $\lambda$ -calculus to incorporate the notion of contexts without jeopardizing the ...

10 Retargetable high-level alias analysis

Deborah S. Coutant

January 1986 **Proceedings of the 13th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

Full text available:  pdf(1.53 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

All optimizing compilers must deal with the problem of aliases arising due to the presence of multiple names that reference the same memory areas. Presented in this paper is a staged, high-level alias analysis methodology that provides detailed alias information to a global optimizer implemented at any level in the compilation process. The framework provides easy portability of optimizing compilers to new architectures, as well as the easy addition, of new compilers to an already existing family ...

11 Design of LMT: a prolog-based machine translation system

Michael C. McCord

March 1989 **Computational Linguistics**, Volume 15 Issue 1


Full text available:  pdf(2.36 MB)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)  
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LMT (logic-based machine translation) is an experimental English-to-German MT system, being developed in the framework of logic programming. The English analysis uses a logic grammar formalism, Modular Logic Grammar, which allows logic grammars to be more compact, and which has a modular treatment of syntax, lexicon, and semantics. The English grammar is written independently of the task of translation. LMT uses a syntax transfer method for translation, although the English syntactic analysis tr ...

12 Oracle-based checking of untrusted software

George C. Necula, S. P. Rahul

January 2001 **ACM SIGPLAN Notices , Proceedings of the 28th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**, Volume 36 Issue 3

Full text available:  pdf(823.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a variant of Proof-Carrying Code (PCC) in which the trusted inference rules are represented as a higherorder logic program, the proof checker is replaced by a nondeterministic higher-order logic interpreter and the proof by an oracle implemented as a stream of bits that resolve the nondeterministic interpretation choices. In this setting, Proof-Carrying Code allows the receiver of the code the luxury of using nondeterminism in constructing a simple yet powerful checking procedure. This ...

13 Writing a compilers compiler in APL

Enrique Alfonseca

July 1998 **ACM SIGAPL APL Quote Quad , Proceedings of the APL98 conference on Array processing language**, Volume 29 Issue 3

Full text available:  pdf(393.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the special capabilities of APL2 for the construction of compilers and translator writing systems (TWS). To that purpose, a TWS has been written in APL2, which takes as input a complete description of a language including an attribute grammar, in extended Backus normal form, and the semantic function associated to each rule of the grammar, written in APL2. The output of the TWS is a compiler, generated directly inside the workspace and ready to compile source code written in ...

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1 [A comparison of receiver-initiated and sender-initiated adaptive load sharing \(extended abstract\)](#)



Derek L. Eager, Edward D. Lazowska, John Zahorjan

August 1985 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1985 ACM SIGMETRICS conference on Measurement and modeling of computer systems**, Volume 13 Issue 2

Full text available: pdf(351.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One goal of locally distributed systems is to facilitate resource sharing. Most current locally distributed systems, however, share primarily data, data storage devices, and output devices; there is little sharing of computational resources. Load sharing is the process of sharing computational resources by transparently distributing the system workload. System performance can be improved by transferring work from nodes that are heavily loaded to nodes that ...

2 [A pattern compiler](#)



Richard D. Jenks

August 1976 **Proceedings of the third ACM symposium on Symbolic and algebraic computation**

Full text available: pdf(634.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A pattern compiler for the SCRATCHPAD system provides an efficient implementation of sets of user-defined pattern-replacement rules for symbolic mathematical computation such as tables of integrals or summation identities. Rules are compiled together, with common search paths merged and factored out and with the resulting code optimized for efficient recognition over all patterns. Matching principally involves structural comparison of expression trees and evaluation of predicates. Pattern r ...

3 [Posters: By the people now, for the people later: using transitory metadata to anchor a digital archive](#)



Anne Washington

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(172.83 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The Congressional Research Service (CRS) serves Congress by providing timely, objective and non-partisan research, analysis and information services. The Legislative Information Office within CRS fulfills that mandate by maintaining a digital library of legislative documents known as the Legislative Information System. An ongoing challenge is designing

these full text and structured databases for both promptness and permanence. This is accomplished by metadata and interface design. This foundatio ...

**Keywords:** digital archive, embedded links, legislation, legislative history, permanent access

4 Assumption analysis in compiled logic-based decision support systems (LDSSs)  
(abstract only)



Michael C. Chen, Lawrence J. Henschen

March 1985 **Proceedings of the 1985 ACM thirteenth annual conference on Computer Science**

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We describe a LDSS which extends and improves on prior proposals<sup>1</sup>. It uses a connection graph to compile programs for handling ordinary queries<sup>2</sup>, thus eliminating the need for deductive search at query time. It provides for assumption analyses (like "what-if" questions) by allowing changes to the rules (clauses) of the system and tracing the effects of such changes, thereby avoiding the need to recompile the whole system<sup>3</sup>

5 Papers: A compilation-chart method for linear categorial deduction



Mark Hepple

August 1996 **Proceedings of the 16th conference on Computational linguistics - Volume 1**

Full text available:  [pdf\(589.50 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Recent work in categorial grammar has seen proposals for a wide range of systems, differing in their 'resource sensitivity' and hence, implicitly, their underlying notion of 'linguistic structure'. A common framework for parsing such systems is emerging, whereby some method of linear logic theorem proving is used in combination with a system of labelling that ensures that only deductions appropriate to the relevant categorial formalism are allowed. This paper presents a deduction method for impl ...

6 Oracle-based checking of untrusted software



George C. Necula, S. P. Rahul

January 2001 **ACM SIGPLAN Notices , Proceedings of the 28th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**, Volume 36 Issue 3

Full text available:  [pdf\(823.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a variant of Proof-Carrying Code (PCC) in which the trusted inference rules are represented as a higherorder logic program, the proof checker is replaced by a nondeterministic higher-order logic interpreter and the proof by an oracle implemented as a stream of bits that resolve the nondeterministic interpretation choices. In this setting, Proof-Carrying Code allows the receiver of the code the luxury of using nondeterminism in constructing a simple yet powerful checking procedure.This ...

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IEE CNF IEE Conference Proceeding

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